

479614 TO 479617-continued

marker 320. Seed collected from a single tree. Wild. Seed.

479615. JH-67-82. Japan. US National Arboretum. 51086. Collected September 17, 1982. Abashiri National Forest, Urbar, Abashiri-shi, Hokkaido. 230m. Snow cover 50cm or deeper for 20 days. Minimum temperature -29C. Tree deciduous, erect, 19m tall. Crown broad. Bark tight, furrowed, gray. Leaves bright green above, blue green beneath. Common in mixed woodland with Cornus, Abies & Aralia in field 121. Seed from one tree. Wild. Seed.

479616. JH-318-82. Japan. US National Arboretum. 51337. Collected October 09, 1982. Along Kendo #1 Hwy, Kayanokogen, Aomori-shi, Aomori-ken, Honshu. 530m. Lat. 40 deg. 40' N, Long. 140 deg. 49' E. Snow 2-3m, 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Tree deciduous, 7.6m tall. Branches many, spreading, more or less globose habit, light brown lenticellate. Bark tight, light gray. Leaves dark green above, blue green beneath. Many specimen trees growing in a park. Wild. Seed.

479617. Japan. US National Arboretum. 51425. Hokkaido (Federal) Forest Breeding Station, Hokkaido. Sent to US National Arboretum by M. Kawase. Collected in Rumoi-shi. Seed.

479618 TO 479620. *Tilia maximowicziana* Shiras. (Tiliaceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.; March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.

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479618. JH-3-82. Japan. US National Arboretum. 51022. Collected September 11, 1982. Togeshita near Rumoi-shi, Hokkaido. 342m. Lat. 43 deg. 53' N, Long. 141 deg. 47' E. Snow cover 50cm or more for 73 days. Minimum temperature -23C. Tree deciduous, to 7.6m. Leaves bright green above, silvery beneath. Growing on open NE hillside with Sasa, Acer and Alnus. Seeds from single tree. Wild. Seed.

479619. JH-147-82. Japan. US National Arboretum. 51169. Collected September 24, 1982. SE, 3.2km of Lake Kusharo, Teshikaga-machi, Kawakami-gun, Hokkaido. Lat. 43 deg. 35' N, Long. 144 deg. 23' E. Snow cover 60cm per annum. Minimum temperature -25C. Tree deciduous, upright, 14m tall. Bark furrowed, light gray. Leaves dark green above, light green beneath. Fruit pendulous, whitish. Growing in mixed woodland of Prunus, Vitis, Ulmus. Seed collected from one tree. Wild. Seed.